

# The renin-angiotensin system in obesity : metabolic and hemodynamic effects

Citation for published version (APA):

Goossens, G. H. (2006). *The renin-angiotensin system in obesity : metabolic and hemodynamic effects*. [Doctoral Thesis, Maastricht University]. Datawyse / Universitaire Pers Maastricht.  
<https://doi.org/10.26481/dis.20060628gg>

## Document status and date:

Published: 01/01/2006

## DOI:

[10.26481/dis.20060628gg](https://doi.org/10.26481/dis.20060628gg)

## Document Version:

Publisher's PDF, also known as Version of record

## Please check the document version of this publication:

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# Stellingen

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## The renin-angiotensin system in obesity

metabolic and hemodynamic effects

1. Lokaal geproduceerd angiotensine II in vetweefsel en de skeletspier heeft een autocriene en/of paracriene, maar geen endocriene functie. *(dit proefschrift)*
2. Angiotensine II is een belangrijke regulator van de doorbloeding van vetweefsel en de skeletspier onder gevaste omstandigheden. Angiotensine II speelt echter geen rol in de postprandiale regulatie van de vetweefsel doorbloeding. *(dit proefschrift)*
3. Angiotensine II remt de lipolyse in vetweefsel en de skeletspier, maar speelt waarschijnlijk geen belangrijke fysiologische rol in de regulatie van de lipolyse. *(dit proefschrift)*
4. Korte termijn behandeling met een ACE remmer heeft geen klinisch relevante effecten op de insulinegevoeligheid. *(dit proefschrift)*
5. Increased formation of angiotensin II by large insulin-resistant adipocytes inhibits recruitment of preadipocytes, resulting in increased storage of lipids in muscle and other tissues, thereby decreasing insulin sensitivity. *(Sharma AM et al. Hypertension 2002;40:609-11)*
6. Numerous fat-derived molecules are hypothesized to underlie the obesity-diabetes connection and thereby represent prospective targets for therapeutic intervention. *(Lazar MA. Science 2005;307:373-75)*
7. The kidney and systemic tissues, such as the vasculature, have distinct and virtually equivalent roles in blood pressure regulation by the renin-angiotensin system. *(Crowley SD et al. J Clin Invest 2005;115:1092-9)*
8. Changes in adipose tissue blood flow may modulate  $\beta$ -cell dysfunction in type 2 diabetes. *(Kampf C et al. Diabetes 2005;54:2620-7)*
9. If everybody is thinking alike, somebody isn't thinking. *(George S. Patton)*
10. Wie de lat voor zichzelf hoog legt, hoeft niet te bukken. *(Jelle Hartkamp)*
11. Wetenschap kan leiden tot politieke veranderingen. Treurig genoeg kan politiek ook de wetenschap beïnvloeden.